

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P294036

Luminaire Tested: **24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-A19/156-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7879.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

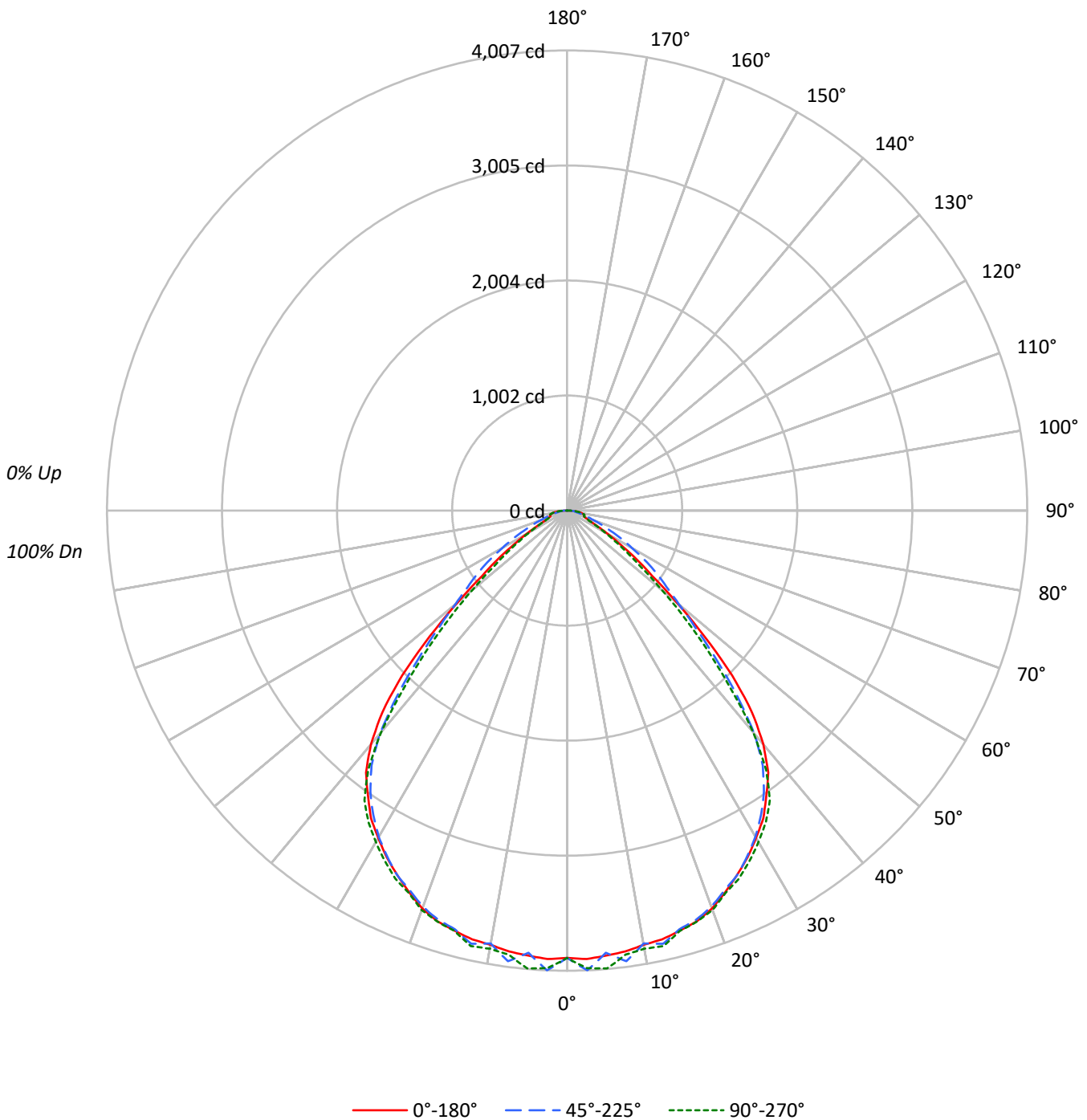
Input Watts (W): 62.682
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5242	5242	5242
5°	5253	5219	5404
10°	5245	5229	5293
15°	5275	5258	5279
20°	5279	5258	5301
25°	5198	5202	5252
30°	5111	5095	5178
35°	4967	4907	5055
40°	4665	4456	4432
45°	3867	3498	3318
50°	2601	2654	2267
55°	1716	2226	1487
60°	1100	1757	1018
65°	709	1342	689
70°	627	961	627
75°	809	763	816
80°	990	657	1039
85°	1153	977	1212



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.0	4.7
10°-20°	1071.1	13.6
20°-30°	1612.5	20.5
30°-40°	1869.0	23.7
40°-50°	1460.0	18.5
50°-60°	779.6	9.9
60°-70°	400.9	5.1
70°-80°	226.8	2.9
80°-90°	86.1	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3056.6	38.8
0°-40°	4925.6	62.5
0°-60°	7165.2	90.9
0°-90°	7879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3896	3896	3896	3896	3896	
5°	3890	3998	3864	3971	4001	370
15°	3787	3811	3774	3798	3790	1070
25°	3501	3490	3504	3499	3538	1613
35°	3024	3010	2987	3047	3077	1885
45°	2032	2033	1838	1822	1744	1531
55°	731	925	949	855	634	675
65°	223	464	421	463	216	245
75°	156	292	147	273	157	158
85°	75	97	63	97	78	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3895.9	3895.9	3895.9	3895.9	3895.9
2.5°	3908.6	3979.5	4007.3	3973.1	3988.3
5°	3889.6	3998.4	3864.3	3970.6	4001.0
7.5°	3871.9	3860.5	3957.9	3856.7	3899.7
10°	3839.0	3846.6	3827.6	3899.7	3874.4
12.5°	3823.8	3868.1	3864.3	3827.6	3883.3
15°	3787.1	3811.2	3774.5	3798.5	3789.7
17.5°	3750.4	3739.0	3735.2	3745.4	3754.2
20°	3687.2	3649.2	3672.0	3674.5	3702.3
22.5°	3596.1	3573.3	3578.3	3601.1	3603.6
25°	3501.2	3489.8	3503.7	3498.6	3537.9
27.5°	3402.5	3387.3	3396.1	3415.1	3439.2
30°	3289.8	3286.1	3279.7	3296.2	3332.9
32.5°	3178.5	3148.1	3143.1	3177.2	3219.0
35°	3024.1	3010.2	2987.4	3046.9	3077.3
37.5°	2877.4	2834.3	2797.6	2833.1	2845.7
40°	2655.9	2623.0	2537.0	2540.8	2523.1
42.5°	2383.9	2359.8	2195.3	2166.2	2116.9
45°	2032.1	2033.4	1838.5	1822.1	1743.6
47.5°	1623.4	1695.5	1526.0	1507.0	1390.6
50°	1242.6	1372.9	1267.9	1237.5	1083.1
52.5°	932.5	1123.6	1090.7	1024.9	812.3
55°	731.4	925.0	949.0	855.4	633.9
57.5°	550.4	761.7	801.0	723.8	489.7
60°	408.7	641.5	652.9	622.5	378.3
62.5°	303.7	545.4	530.2	534.0	280.9
65°	222.7	464.4	421.4	463.1	216.4
67.5°	182.2	402.4	327.7	401.1	175.9
70°	159.4	356.8	244.2	353.0	159.4
72.5°	154.4	327.7	193.6	313.8	155.6
75°	155.6	292.3	146.8	273.3	156.9
77.5°	143.0	240.4	111.3	232.8	149.3
80°	127.8	182.2	84.8	184.7	134.1
82.5°	108.8	132.9	68.3	136.7	112.6
85°	74.7	97.4	63.3	97.4	78.5
87.5°	35.4	58.2	39.2	55.7	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)